

**Notice of Allowability**

Application No.

10/759,655

Examiner

Phuong Huynh

Applicant(s)

HUANG, DAVID

Art Unit

2857

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on March 15, 2006.
2. ☒ The allowed claim(s) is/are 1-33.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

## DETAILED ACTION

### *Allowable Subject Matter*

1. Claims 1-33 are allowed over the prior art.

The following is an examiner's statement of reasons for allowance:

Funkhouser et al. (hereinafter "Funkhouser") (US Patent Application Publication No. 2002/0193925) discloses an auto diagnostic method and device wherein the diagnostic codes (DTCs)/error codes retrieved from vehicle are transferred to server 34, which contains the software that matches the captured codes to code interpretations contained on the OBDII database of the server 34. The software processes the error codes within the server 34 to provide a human-readable report in a natural language and transferred back to the user in a natural language. For example, a DTC number/code such as P0171 will have a description such as *Error/Air level too high* [see Funkhouser: Paragraphs [0079]-[0092]].

Kapolka et al. (hereinafter "Kapolka") (US Patent Application Publication No. 2005/0060070) discloses a system, method and computer program produce for remote vehicle diagnostics, which uses an on-board computer/unit, an application-service-provider-model application server (ASP) and a wireless communication system and framework to provide value-added services to vehicle owners, users, and support organizations. Further, Kapolka discloses a vehicle server that stores and processes vehicle - specific data and acts as a translator which processes data requests and vehicle responses and converts

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into translated vehicle information; and Kapolka discloses a data parser/requester module that contains logic such as software code, that is responsible for handling direct interfacing between a processor and a vehicle data bus for non-application-specific such as "generic" SAE J1708 or SAE1939 discrete measurement points [see Kapolka: Paragraphs [0039], [0041], [0045], [0060], and [0075]-[0077]].

Hinsley et al. (hereinafter "Hinsley ") (US Patent Application Publication No. US 2004/0015911) discloses a method of translating and executing object-oriented computer programs which is applicable to a wide range of embedded devices such as motor vehicles, of networkable devices, and also has applications in the field of wireless communication. Further, Hinsley discloses a translator that provides machine-independent optimization of instructions [see Hinsley: Abstract, and Paragraphs [0030], [0091], and [0092]].

- Regarding claims 1 and 6, the combination as claimed wherein "a code parser for parsing the received diagnostic codes into diagnostic code segments, [which is correlated to corresponding diagnostic *descriptor* segments by a code translator]," or "a combiner for combining the code descriptor segments to derive composite diagnostic code descriptors, the composite code descriptors being collectively representative of the received diagnostic code," is not disclosed, suggested, or rendered obvious by the prior art of record.

For at least the reasons listed above, dependent claims 2-5, 7-9, and 12-14 are also allowed.

- Regarding claim 10, the combination as claimed, wherein "identification of the type of vehicle under test proceeds by sequential generation of a plurality of linking commands, each linking

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command being formatted in accordance with an associated vehicle protocol," is not disclosed, suggested, or rendered obvious by the prior art of record.

For at least the reasons listed above, dependent claim 11 is also allowed.

- Regarding claim 15, the combination as claimed wherein "displaying automobile diagnostic codes and affiliated descriptor of the diagnostic codes," or "a source code segment [as claimed in claim 15, at lines 7-19]" is not is not disclosed, suggested, or rendered obvious by the prior art of record.

For at least the reasons listed above, dependent claims 16-19 are also allowed.

- Regarding claim 20, the combination as claimed wherein "a descriptor segment tables comprising a list of descriptor segments with an associated unique symbol(s)," "composite code table(s)," "identifying the composite code descriptor table(s) that correlates to the *received diagnostic code*," "translating the unique symbols from the composite code to correlated descriptors," or "combining descriptors to derive a descriptor reflective of the received diagnostic code," is not disclosed, suggested, or rendered obvious by the prior art of record.

For at least the reasons listed above, dependent claims 21-24 are also allowed.

- Regarding claims 25 and 29, the prior art of record does not disclose, suggest, or render obvious the claim limitation "source code segment" and combination thereof.

For at least the reasons listed above, dependent claims 26-28, and 29-33 are also allowed.

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**Conclusion**

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Huynh whose telephone number is 571-272-2718. The examiner can normally be reached on M-F: 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc Hoff can be reached on 571-272-2216. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuong Huynh  
Examiner  
Art Unit 2857

PH  
05/10/2006

  
MARC S. HOFF  
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